

Claims

- [c1] 1.An armature for a rotating machine having a circular core of a magnetic material and a plurality of magnetic pole teeth extending radially from said circular core and terminating at terminal ends spaced from said circular core, each of said magnetic pole teeth defining a core and an enlargement formed at the terminal end of said core, to define slots formed between adjacent magnetic pole teeth, each of said slots having a mouth formed between adjacent enlargements, and an insulator extending at least along the side of said enlargements facing said circular core for protecting windings formed by a winding needle from damage by the winding needle.
- [c2] 2.An armature for a rotating machine as set forth in claim 1, wherein the pole teeth are at least partially covered by an insulating bobbin around which the winding needle places the windings.
- [c3] 3.An armature for a rotating machine as set forth in claim 2, wherein the insulating bobbin has leg portions that extend for the length of the pole teeth at least on the sides of the slots.
- [c4] 4.An armature for a rotating machine as set forth in claim 3, wherein the insulators have a greater thickness than the insulating bobbin leg portions.
- [c5] 5.An armature for a rotating machine as set forth in claim 3, wherein the insulators define a slot that receives the winding nozzle tip.
- [c6] 6.An armature for a rotating machine as set forth in claim 5, wherein the slot is formed between portions of the insulator that define an opening smaller than the diameter of the received winding nozzle tip.
- [c7] 7.An armature for a rotating machine as set forth in claim 3, wherein the insulator is carried by the bobbin leg portions.
- [c8] 8.An armature for a rotating machine as set forth in claim 7, wherein the insulators have a greater thickness than the insulating bobbin leg portions.
- [c9] 9.An armature for a rotating machine as set forth in claim 7, wherein the

insulators define a slot that receives the winding nozzle tip.

- [c10] 10. An armature for a rotating machine as set forth in claim 9, wherein the slot is formed between portions of the insulator that define an opening smaller than the diameter of the received winding nozzle tip.
- [c11] 11. An armature for a rotating machine as set forth in claim 4, wherein the insulator is integrally formed with the bobbin leg portions.
- [c12] 12. An armature for a rotating machine as set forth in claim 11 wherein the insulators have a greater thickness than the insulating bobbin leg portions.
- [c13] 13. An armature for a rotating machine as set forth in claim 11 herein the insulators define a slot that receives the winding nozzle tip.
- [c14] 14. An armature for a rotating machine as set forth in claim 13 herein the slot is formed between portions of the insulator that define an opening smaller than the diameter of the received winding nozzle tip.